s/106/60/000/006/004/013 A055/A133

9.3280

Shpakov, V. I.

KUTHOR: TITLE:

Calculation of an electronic relay

Elektrosvyaz¹, no. 6, 1960, 18 - 23

When calculating the parameters of a symmetrical electronic relay when calculating the parameters of a symmetric form and load resisting the schematically in fig. 1), it is usually assumed that the anode load resisting schematically in fig. 1), it is usually assumed that the anode load resisting schematically in fig. 1). PERIODICAL: ance Ra is considerably smaller than the resistance Rag + Rg of the divider. "delitel' svyazi") In the case of high-speed relays, however, it is necessary that the resistance of the divider should be small, since (the capacitances of the circuit being constant) these resistances determine the steepness of the front of the impulse. But these resistances, when they are commensurable with the ances load, exert a substantial influence upon the operating conditions of the relay and upon the magnitude of the output pulses. The object of the present article is to give a comparatively simple method of calculating the parameters of the relay in the case of commensurable resistance of the anode circuit and the grid circuit. As shown by L. A. Meyerovich and L. G. Zelichenko ("Impulse Technique" elreult. As snown by L. A. Heyerovich and L. G. Zellenenko (Impulse lechnique edited by "Sovietskoye Radio", 1953), the transfer characteristic, determining

Card 1/3

Calculation of an electronic relay

S/106/60/000/006/004/013 A055/A133

the high-speed properties of the relay, depends, for given capacitances, on the resultant resistances of the anode circuit $R_{as} = \frac{Rag\ Rg}{Rag + Rg}$ where Rio is the d-c. resistance of the tube. The requir-

ed duration of the front of the transfer characteristic of the output circuit is

$$\overline{\epsilon}_{\phi} = \frac{R_a R_{t0}}{R_a + R_{t0}} C' \tag{1}$$

and the time separating two controlling pulses is:

$$T = 2.3C''\frac{R_{ag}R_g}{R_{ag} + R_g}.$$
 (2)

where C'comprises the output capacitance of the tube, the capacitance of the wiring and the capacitance of the load connected to the output circuit, whereas C'comprises the input capacitance of the tube, the capacitance of the wiring, the capacitance of the source of the controlling pulses and the capacitance on parallel with Rag. Using these formulae and the equivalent circuits of Fig. 2 [a) for the blocked tube and b) for the unblocked tube], the author first states the con-

Cand 2/ 4

Calculation of an electronic relay

\$/106/60/000/005/004/013 A055/A133

ditions under which the operation of the relay will be stable. These conditions are: $|U_g(+)| \ge 0$ (fig. 2a) and $|U_g(-)| \ge U_{bl}$ (fig. 2b), where U_{bl} is the tube blocking voltage [Abstracter's note: subscript "bl" (blocking) is the translation of the original "3" ("sapiranie")]. On the basis of these conditions, the author obtains a formula giving $R_{ag} + R_g$:

$$R_{ag} + R_{g} = \frac{U_{J}R_{a}R_{l0}(E_{1} + E_{2}) + E_{2}^{2}k_{a}^{2}}{E_{1}E_{2}k_{a} - U_{J}(E_{1} + E_{2})(R_{a} + R_{l0})}.$$
 (8)

He then deduces two other formulae giving respectively the limit-value of E_2 and the value of E_1 for which $R_{\rm ag}+R_{\rm g}$ tends towards infinity. The set of formulae obtained by the author allows to determine the values of E_2 and of $R_{\rm ag}+R_{\rm g}$ encuring a stable operation of the relay. An algebraic solution of the involved equations being difficult, the author resorts to a graphical solution. He recalls and E_2 vary. Three cases are possible: 1) E_1 and E_2 vary proportionally in the same direction; 2) they vary in the same direction, but E_1 varies quicker than ther shows how either of these three cases affect the choice of the parameters of the relay. At the end of the article, the author's formulae are applied to a Card 3/4

211,05 S/089/61/011/006/008/014 B102/B138

2 11000 AUTHORS:

Shpakov, V. I., Petrzhak, K. A., Bak, M. A., Kovalenko, S. S.,

Kostochkin, O. I.

TITLE:

Delayed-neutron yields in Pu^{239} and Th^{232} fissions induced

by 14.5-Mev neutrons

PERIODICAL: Atomnaya energiya, v. 11, no. 6, 1961, 539 - 540

TEXT: From theoretical considerations and analyses of experimental data a slight decrease in delayed-neutron yields is expected with increasing excitation energy. So far it has only been measured for 14.5 Mev

thermal fission neutrons from $\rm U^{235}$. The authors measured the delayedneutron yield of 14.5-Mev neutron-induced $\rm Pu^{239}$ fission and, for compari-

son, that of ${\rm Th}^{232}$ fission. It was determined as the ratio between number of fission events and the number of delayed neutrons produced per second in the sample of fissile matter. The Pu or Th sample was cadmium coated and bombarded with 14.5-Mev neutrons from ${\rm T(d,n)He^4}$ reactions, with a target just behind it being irradiated simultaneously. The steel backing of the target was one electrode of the ionization chamber. To measure Card 1/3

21405 S/089/61/011/006/008/014 B102/B138

Delayed-neutron yields in...

the number of delayed neutrons emitted, about 0.2 sec; after irradiation had ceased the sample was dipped into a neutron detector 1.5 m from the neutron source. The detector consisted of 17 boron counters of the CHM-5A (SNM-5A) type contained in a paraifin block. The end of neutron bombardment which coincided with removal of the sample was established cinematographically with an accuracy of 0.02 sec. As neutron counting started 0.2 sec after the end of bombardment, this caused a loss in neutrons with a delay of 0.16 sec. Special measurements were made to determine this error, which was not above the experimental level. The total number of delayed neutrons could thus be determined by extrapolating the neutron number - versus - time curve to the instant when bombardment ceased. The following results were found: total delayedneutron yield per decay event: 0.0130 ± 0.0015 for Pu^{239} , and 0.075 ± 0.007 for Th^{232} . The Pu^{239} , yield is twice as high as when fission is induced by thermal or fission neutrons. This result is explained by assuming that neutron emission probability increases with increasing excitation energy. There are 1 figure and 4 references: 3 Soviet and 1 non-Soviet. The two references to English-language publications read as follows: G. Keepin et al., Phys. Rev. 107, 1044 (1957); J. Nucl. Energy, 6, 1 (1957); K. Sun et al., Phys. Rev. 79, 3, 1950. Card 2/3

"APPROVED FOR RELEASE: 08/09/2001

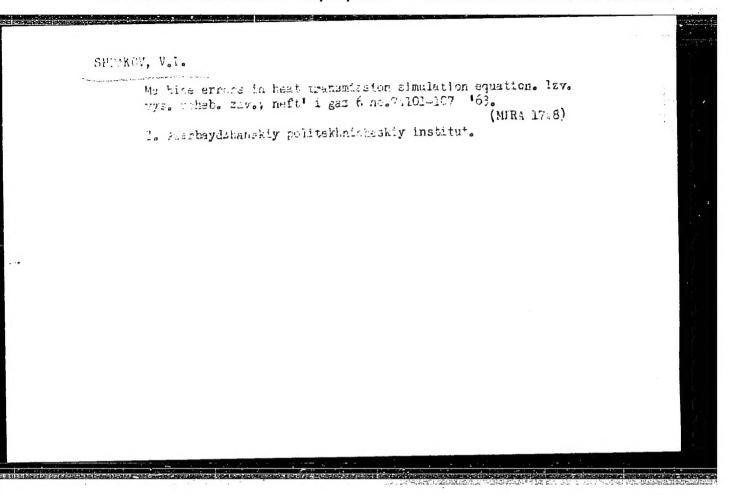
CIA-RDP86-00513R001549920012-8

21405 \$/089/61/011/006/008/014 B102/B138

Delayed-neutron yields in...

SUBMITTED: July 18, 1961

Card 3/3



KOSTOCHKIN, O.I.; PETRZHAK, K.A.; SOKOLOV, A.M.; SHPAKOV, V.I.

A 4-N counter for measuring the radioactivity of gaseous products. Prib. i tekh. eksp. 9 no.3252-55 My-Je *64 (MIRA 18:1)

SHPAKOV, V.1.; KOSTOCHKIN, O.I.; PETRZHAK, K.A.; ARON, F.M.

Yields of 87 Br, 88 Br, 137 I, 138 I precursors of delayed neutrons in the fission of 238 U and 232 Th with an energy of 14.5 Mev. Radiokhimiia 7 no.1:96-103 '65.

(MIRA 18:6)

KRISYUK, I.T.; EMPAKOV, V.I.

Calculation of partial and total fission yields. Radiokhimila
7 pc.6:602-703 *65.

"APPROVED FOR RELEASE: 08/09/2001

CIA-RDP86-00513R001549920012-8

L 34614-66 EWT (m)

ACC NR: AP6026574

UR/0186/65/007/006/0692/0703 SOURCE CODE:

AUTHOR: Krisyuk, I. T.; Shpakov, V. I.

ORG: none

TITLE: Calculation of partial and total fission fragment yields

SOURCE: Radiokhimiya, v. 7, no. 6, 1965, 692-703

TOPIC TAGS: nuclear fission, isotope, fission product

ABSTRACT: Experiments undertaken by the authors have shown that calculating partial and total yields of fission fragments requires that a large number of factors be taken into account, capable of affecting the ultimate activity of the isotope in question. If a precise calculation of the corrections to be made is complex, then at least an evaluation of possible secondary processes must be carried out. In calculating total yields it is necessary also to estimate a correction for the yield of subsequent chain members and the noninstantaneous decay of precursors. By calculating yields according to given formulas with allowance for all the corrections specified in the article, yield values can be obtained that are close to actual values. Orig. art. has: 4 tables and 29 formulas. [JPRS: 36,455]

SUB CODE: 20 / SUBM DATE: 12Jun64 / ORIG REF: 006 / OTH REF: 004

9,3280

5/024/61/000/001/010/014 E061/E128

AUTHORS:

Ginzburg, M.Ya., and Shpakov, V.L. (Sumgait)

TITLE:

A Contribution to the Problem of the Construction of

Electronic Delay Circuits

PERIODICAL: Izvestiya Akademii nauk SSSR, Otdeleniye tekhnicheskikh

nauk, Energetika i avtomatika, 1961, No. 1, pp.164-165

An electronic circuit giving a pure time delay, which can be simply varied, is described. The circuit uses operational amplifiers and is designed to utilize the full permissible range of amplifier voltages. The circuit is shown in the diagram. circuit parameters are given by:

$$K_{11} = \frac{1}{R_{11}C_1} = \frac{12}{C_{21}C_{31}^{\tau}}$$
; $K_{12} = \frac{1}{R_{12}C_1} = \frac{72}{C_{41}C_{21}^{\tau}}$

$$\kappa_{12} = \frac{1}{R_{12}C_1} = \frac{72}{C_{41}C_{21}\tau}$$

$$K_{13} = \frac{1}{R_{13}C_1} = 6\tau^{-1}$$
;

$$K_{21} = \frac{1}{R_{21}C_2} = C_{21}\tau^{-1}$$

Card 1/3

25756

5/024/61/000/001/010/014 E061/E128

A Contribution to the Problem of the Construction of Electronic

Delay Circuits

$$K_{22} = \frac{1}{R_{22}C_2} = \frac{12}{C_{41}\tau} ;$$

$$K_{22} = \frac{1}{R_{22}C_2} = \frac{12}{C_{41}\tau};$$
 $K_{31} = \frac{R_{oc3}}{R_{31}} = C_{31} \le 1$

$$K_{41} = \frac{R_{0c}4}{R_{41}} = C_{41} \ge 2 ; K_{42} = \frac{R_{0c}4}{R_{42}} = 1$$

$$K_{42} = \frac{R_{oc}4}{R_{42}} = 1$$

$$c_{21} \geqslant \frac{24}{c_{41}}$$

terms denote gains; C41, C31, C21 τ is the delay time; the K terms denote gains; C41, C3 are constants. The highest pulsation in the frequency spectrum of the input must be less than π/τ . The circuit represents a convenient method of simulating systems in which the delay time is a function of other variables. There are 1 figure and 2 Soviet references.

SUBMITTED: April 11, 1960

Card 2/3

"APPROVED FOR RELEASE: 08/09/2001

CIA-RDP86-00513R001549920012-8

KAPLAN, A.L.; SHPAKOV, V.L.

Calculating sections of equal discharge for the PUR sampler. Transp. i khren. nefti i nefteprod. no.11:20-22 '64. (MIRA 18:1)

1. Nauchno-issledovatel skiy i proyektryy institut po kompleksnoy avtomatizatsii proizvodstvennykh protsessov v neftyanoy i khimicheskoy promshlennosti.

ACC NR.AP7006131

SOURCE CODE: UR/0056/67/052/001/0103/0111

AUTHOR: Kaminskiy A. A.; Shpakov, V. N.

ORG: Institute of Crystallography, Academy of Sciences SSSR (Institut kristallografii Akademii nauk SSSR)

TITLE: Investigation of new crystals in Q-switched lasers

SOURCE: Zhurnal eksperimental'noy i teoreticheskoy fiziki, v. 52, no.1,

TOPIC TAGS: laser, solid state laser, laser optic material, mixed crystal, activated crystal

ABSTRACT: An investigation was made of the possibility of producing a Q-switched laser based on a series of crystals operating at 300°K. The crystals consisted of mixed fluoride systems CaF₂—YF₃—Nd³⁺, CaF₂—CeF₃—Nd³⁺, BaF₂—LaF₃—Nd³⁺, types I and II CaF₂—Nd³ crystals, and garnet crystals (Y₃Al₅O₁₂), scheelite crystals (CaWO₄), and glasses activated with Nd³⁺ ions. A study was also made of the relationship between the numerous optical centers which are present in mixed fluoride crystals in the free-running and Q-switched modes. The threshold values of excitation energy in the investigated modes were

Card 1/2

none . ADC:

comparatively low. These values increase slightly as the Q-switched mode ACC NR: AP7006131 is approached. All of the active media investigated can be divided into two groups, according to the variety of optical activator centers. The first group includes crystals which produce a small quantity of centers (1 to 7) at the activator concentration used in lasers (0.5-5%). This group includes types I and II CaF2-Nd3+, as well as Y3Al5012-Nd3+ and CaWO, -Nd3+. The second group includes mixed fluoride crystals in which the number of optical centers can reach 100. In the crystals of the first group only one type of optical centers participates in the generation at 300°K. In the crystals of the second group, which are characterized by a variety of optical centers, energy transfer between centers takes place. In addition, a sharp narrowing of the generation line is observed. The authors thank V. V. Osiko for fluoride crystals, V. S. Zuyev for discussing the results, and G. A. Bogomolova for help in carrying out the experiments. Orig. art. has: 4 figures and 1 table. [JA] 003/ ORIG REF: 15Aug66/ 20/ SUBM DATE: SUB CODE: ATD PRESS: 5117

Card 2/2

"APPROVED FOR RELEASE: 08/09/2001

CIA-RDP86-00513R001549920012-8

TT/WE EWT(d)/EWT(m)/EWP(h)/EWP(1) UR/ Monograph Knoring, Semen Davydovich; Pavlinova, YEvgeniya Alekseyevna; Filippeo, Maksim Valentinovich; Shpakov, Vladimir Stepanovich, Shtumof, Valentin Mikhaylovich Floating flexible vessels for the transportation of petroleum products; problems of durability and hydrodynamics, and theory and methods of calculation (Plavuchiye elastichnyye yemkosti dlya transportirovki nefteproduktov: voprosy prochnosti i gidrodinamiki, teoriya i metody rascheta) Leningrad, Izd-vo "Sudostroyeniye", 1965. 223 p. illus., biblio. 1,250 copies printed TOPIC TAGS: ocean transportation, inland vessel data, merchant vessel data, cargo ship, solid statics, hydrodynamics PURPOSE AND COVERAGE: The book presents the results of investigations of the strength and speed of new means of transportation-floating elastic vessels intended for the transportation of petroleum products and other liquid loads on sea and inland waterways. Experience and design of manufacture of such vessels, accumulated in Soviet and foreign shipbuilding is described. Practical methods for calculating the strength and speed of floating elastic vessels under all principal operating conditions are given. Recommendations on the design and construction of such vessels are presented. The bulk of the investigations reported were made by the authors and are published for the first time. The book is intended for engineering-technical workers in design offices and in the shipbuilding industry, and can also be used by students of shipbuilding institutes and faculties. Authors thank N. P. Sytov, A. L. Koshevoy, B. I. UDC: 629.12.011.17 Card

L 25558-66 ACC NR AM6004767 Golod, R. V. Pyatyshev, and V. YA. Aleksandrov and also YU. F. Ryabkov for useful remarks, and N. V. Alekseyeva for great help in the calculations and the reduction of the experimental data. The sections of the book devoted to shell strength were written by S. D. Knoring, YE. A. Pavlinova, and M. V. Fillipeo, and the hydromechanic sections were written by V. M. Shtumpf and V. S. Shpakov. TABLE OF CONTENTS [abridged]: From the authors - - 4 Symbols - - 5 Ch. I. Principal information on the constructions of elastic vessels and the range of their application - - 7 Ch. II. Statics of a floating vessel - - 19 Ch. III. Hydrodynamics of a floating vessel - - 52 Ch. IV. Strength of shells of elastic vessels - - 108 Ch. V. Practical methods for calculating the strength and speed of vessels Literature - - 222 ORIG REIP: 041 SUBM DATE: 178ep65/ OTH REF:

NOGID, Lov Markovich; GIRS, I.V., kand.tekhm.nauk. retsenzent;

SHPAKOV, V.S., kand.tekhm.nauk, retsenzent; DORIN, V.S.,
nauchnyy red.; SHAKHHOVA, V.M., red.; SHISHKOVA, L.M.,
tekhm. red.

[Planning the shape of a ship and preparing preliminary drawnings]Proektirovanie formy sudna i postroenie teoreticheskogo chertezha. Leningrad, Sudpromgiz, 1962. 242 p.

(MIRA 15:8)

(Hulls (Naval architecture))

DURROVSKTY, V.A., inch.; Dassov, V.M., scan.; Shrahov, V.S., koma. tekhn. nauk Trudying the seaworthiness and strength of categories. Sudostreenie 30 nc.7:63-65 Ul 164.

The last of a solution of the second rule was for reading the grant solution and the second rule of the seco

SHFAKOV, Ye.

20970 Shpakov, Ye. i Vinogradov, V. Sul'fidnyi vypryamitel' dlya zaryadki Starteknykh Akkumulyatornykl batarey. Automóril', 1949, No. 6, s. 22-23.

SO: 12TOTIS ZHURNAL STATEY- Vol. 28, Moskva, 1949

NOVIKOV, Mikhail Petrovich, SHPAKOVA, A.P., otv. za vypusk,; OVSYANNIKOV, M.F., dots., kand. filosofskikh nauk, red.; FURMAN, G.V., tekhn. red.

[Inconsistencies in the socialist system of production and how to overcome them] Protivorechiia v sotsialisticheskom sposobe proizvodstva i ikh preodolenie. Moskva, Ob-vo po rasprostraneniiu polit. i nauchn. znanii RSFSR, 1958. 31 p. (MIRA 11:12)

1. Zav. otdelom filosofii, pedagogiki, literatury i iskusstva Pravleniya Obshchestva po rasprostraneniyu politicheskikh i nauchnykh znaniy RSFSR(for Shpakova). (Industry)

USSR / Cultivated Plants. Grains.

M-3

Abs Jour: Ref Zhur-Biol., 1958, No 16, 72927.

Author : Dombrovskaya, M. V.; Shpakova, B. M.

: Odessa University. Title : Increase in Harvest Yield of Corn by Means of Inst

Additional Carbon Feeding Through the Roots.

Orig Pub: Nauchn. yezhegodnik, Odessk. un-t, 1956, Odessa,

1957, 202-203.

Abstract: No abstract.

Card 1/1

CIA-RDP86-00513R001549920012-8" APPROVED FOR RELEASE: 08/09/2001

CHERNYSHEV, M.P.; ROZHKOV, L.P.; SHUL'GINA, Ye.F.; IGNATOVICH, A.F.;
LABUNSKAYA, L.S.; FOMINA, T.V.; CHERNYAKOVA, A.P.; SHPAKOVA,
L.N.; TARASOVA, M.K.; ANFILATOVA, A.I.; SLAVIN, L.B.;
BARYSHEVSKAYA, G.I.; DERIGLAZOVA, N.V.; MATUSHEVSKIY, G.V.;
AL'TMAN, E.N.; KROPACHEV, L.N.; CHEREDILOV, B.F.; POTAPOV,
A.T.; DUDCHIK, M.K.; REGENTOVSKIY, V.S.; YERMAKOVA, L.F.;
SEMENOVA, Ye.A.; KULIKOVSKIY, I.I.; KIRYUKHIN, V.G.; AKSENOV,
A.A., red.; NEDOSHIVINA, T.G., red.; SERGEYEV, A.N., tekhn.
red.; BRAYNINA, M.I., tekhn. red.

[Hydrometeorological handbook of the Sea of Azov] Gidrometeorologicheskii spravochnik Azovskogo moria. Pod red. A.A.Aksenova. Leningrad, Gidrometeoizdat, 1962. 855 p. (MIRA 16:7)

1. Gidrometeorologicheskaya observatoriya Chernogo i Azovskogo morey.

(Azov. Sea of-Hydrometeorology)

UR/0169/65/000/005/B106/B106 551.575 (262.54)

L 54531-65 EWT(1)/FCC

ACCESSION NR: AR5014444

SOURCE: Ref. zh. Geofizika, Abs. 5B592

AUTHOR: Shpakova, L.N.

TITLE: Fogs on the Sea of Azov

CITED SOURCE: Sb. rabot Gidrometerol. observ. Chern. i Azovsk. morey, vyp. 2, 1964,

TOPIC TAGS: climatology, fog, advective fog, radiation fog

TRANSLATION: All cases of fogs for a 10-year period for 13 stations representative of all the coastal regions of the Sea of Azov were considered. In addition, observational data for 10 vessels for a 5-year period were used, as well as data from aircraft reconnaissance for a 9-year period. Fogs occur on the Sea of Azov during the entire year and have a wellexpressed seasonal variation. The maximum number of days with fog occurs in winter (20-23 days) and the minimum in summer (2 days). Fogs with a continuous duration of 12 hours predominate. Fogs are formed when there are weak winds (from 1 to 5 m/sec). In winter, advective fogs occur which cover not only the coast but also the open part of the sea and these are quite persistent. In spring, summer and autumn there is a predominance of

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ACCESSION NR: AR5014444					0
radiation fogs; these are obse in the open part of the sea.	erved at sev T. Terent'y	veral coasta eva	1 stations but	are almost ne	ver observed
BUB CODE: ES	ENCL: 00				
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* Swith					

SHPAKOVA, N.A. Cand Agr Sci -- (diss) "Questions on agricultural engineering of corn under the conditions of Vitebskaya Colast The Vitebskaya of BSSR." Mos,1957. 17 pp. (Mos Order of Lenin Agr Acad im Academician K.A. Timiryazev). 110 copies. (KL, 8-58, 107)

-49-

SHPAKOVA, N.R., inzh.

Elocking of disconnectors and cutouts. Energetik 12 no.12:15-16
D *64

(MIRA 18:2)

CIA-RDP86-00513R001549920012-8 "APPROVED FOR RELEASE: 08/09/2001

8(2,6)

sov/91-59-5-11/27

AUTHORS:

Shpakova, H.R., Engineer and Preyverk, Kh.Kh.,

Technician

TITLE:

Blocking Up the Switches With Disconnectors (Blo-

kirovka vyklyuchateley s raz"yedinitelyami)

PERIODICAL:

Energetik, 1959, Nr 5, pp 21-23 (USSR)

ABSTRACT:

This article describes the construction and functioning of the blocking of the oil breakers of a complex distribution device KRU 3 kv with disconnectors of two feed lines KRU, sectional disconnector KRU and interbusbar 3 kv RU, worked out by the electric laboratory of the Tallin power plant. It consists of four intermediate relays EP-101-A, one intermediate relay EP-103, block contacts of section disconnectors I and II KRU switched up to block busbars 1ShB-I, 2 ShB-II, 1ShB-II, 2ShB-II. block contacts and disconnection locks R,2R, R (Figure 2). A peculiar

Card 1/2

30V/91-59-5-11/27

Blocking-Up the Switches With Disconnectors

feature of this scheme consists of the use of intermediate relays. There are 2 schemes.

Card 2/2

Intel , i.V., a.col and the control of the Mark R.P., which he necessary controls

Jollective ferm is mobilines withorto unused resources. Zemledolie 7 no.5:17-20 No. 180. (MIRA 12:7)

1. Vecesyuznyy nauchnewissledovatel skiy institut ekonomii sel skogo khozmaystva. (Megilev Province—Acriculture)

L 01946-67 EWP(k)/EWT(d)/EWT(m)/EWP(w)/EWP(v) IJP(c) EM/WM

ACC NR: AR6021882 (N) SOURCE CODE: UR/0124/66/000/003/V015/V015

AUTHOR: Protsenko, O. P.; Shpakova, S. G.

a B

TITLE: The stability of a cylindrical shell with an initial bend

under dynamic loading

SOURCE: Ref. zh. Mekhanika, Abs. 3V103

REF SOURCE: Sb. Dinamika sistem tverdykh i zhidkikh tel. Kiyev, 1965, 107-114

TOPIC TAGS: cylindric shell structure, cylindric shell, cylindric shell stability, dynamic loading, bending stress, compression force, axial compression

ABSTRACT: A comparison was made between two methods of calculating the effect of an initial bend on the stability of a closed cylindrical shell subjected to aperiodic axial compression forces. The first method, which is commonly used for studying the stability of a cylindrical shell, is based on the assumption that the bending of the shell consists of an initial bend and an elastic bending resulting from the application of a load. In the second method, changes in the curvature of the initial bend in the shell is taken into consideration so that

Card 1/2

L 01946-67

ACC NR: AR6021882

0

the cylindrical surface is transformed into a quasicylindrical surface of a variable dual curvature. Bending of such a shell is understood to mean only elastic bending. A numerical study showed that according to the second method, which considers the effect of the initial bend, the bend increases more sharply and the magnitude of bending is significantly higher during the loss of stability. The average value of the critical dynamic load obtained by the second method is 10% higher than the corresponding magnitude found by the first method. [Translation of abstract.]

SUB CODE: 20/

Card 2/2 9d

AUTHORS:

Shuliga, P.L. and Shpakova, V.B.

21-58-5-23/28

TITLE

New Geological Section of the Paleozoic Deposits in the North-Western Part of Volyn: (Novyy geologicheskiy raz-rez paleozoyskikh otlozheniy v severo-zapadnoy chasti

Volyni)

PERIODICAL:

Dopovidi Akademii nauk Ukrains'koi RSR, 1958, Nr 5,

pp 558-561 (USSR)

ABSTRACT

The article describes the geological section of a prospecting hole drilled in 1957 on the right bank of the Zapadnyy Bug river in the village Berezhtsy, Lyuboml' district, Volyn' Oblast'. This hole crossed the following deposits? Quaternary - 16.5 m, Upper Cretaceous - 321,40 m, Jurassic - 7.50 m, Lower Carboniferous - 13.55 m, Upper Cambrian - 285,25 m, Middle Cambrian - 136,45 m, Lower Cambrian - 125,45 m, and Ripheus - 340,55 m, of which 109.2 m in the upper part correspond to the Baltic laminaritic and Gdov formations, and 231,35 m in the lower part are represented by sedimentary effusive rocks. The authors correlate the Upper Cambrian deposits in the section under consideration, with the horizon of obolus sandstones and dictyonema slates. There is a transgressive overlap of the Lower Cambrian deposit over the Ripheus ones.

Card 1/2

21-58-5-23/28

New Geological Section of the Paleozoic Deposits in the North-Western Part of Volyn'

The laminaritic-Gdov formation in this section is correlated with the lower strata of the Podolian Ushitsa series. There are 4 Soviet references.

ASSOCIATION: Institut geologicheskikh nauk AN UkrSSR (Institute of

Geological Sciences of the AS UkrSSR)

PRESENTED: By Member of the AS UkrSSR, V.G. Bondarchuk

SUBMITTED: October 17, 1958

NOTE: Russian title and Russian names of the individuals and in-

stitutions appearing in this article have been used in the

transliteration.

1. Geology--USSR

Card 2/2

SHAPOSHNIKOVA, L.A.; SHPAKOVA, V.M.

Use of pollen in the metallurgical industry. Bot. zhur. 48 no.6:843-844 Je '63. (MIRA 17:1)

1. Odesskiy gosudarstvennyy universitet imeni I.I. Mechnikova.

SHPAKOVICH, A.D.

Automatic machine for printing labels on bottles. Med. prom. 10 no.1:20-23 Ja-Mr '56. (MLRA 9:6)

1. Kiyevskiy zavod meditisnskikh preparatov. (LABELING MACHINES)

SHPAKOVICH, A.V., inzh.sluzhby puti

Snow protection of tracks in tundra regions. Put i put.khoz. 4 no.9:22-23 S 160. (MIRA 13:9)

l. Kombinat "Vorkutaugol'," g. Vorkuta.

(Pechora Basin-Railroads-Snow protection and removal)

SHPAKOVICH, V.M., kapitan meditsinskoy sluzhby

Experience in the samitary bacteriological inspection of bread. Voen. med. zhur. no.2:57-58 '63. (MJHA 17:9)

APPROVED FOR RELEASE: 08/09/2001 CIA-RDP86-00513R001549920012-8"

"APPROVED FOR RELEASE: 08/09/2001

CIA-RDP86-00513R001549920012-8

FOLAND / Chemical Tochnology. Processing of Solid Fuels

H-22

Abs Jour

: Rof Zhur - Khim., No 12, 1958, No 40934

Author

: Shpakovskeya : Not given

Inst Title

: Gas Supply in Bordceux, France

Crig Pub

: Gaz. wode, techn. sanit., 1957, 31, No 10, 383-387

Abstract

in Modern gas supply system in Bordeaux, France, is described. It is based on the production of natural gas from the dry distillations carried on in the coal and petroleum refineries. Technical installations are described, as well as the properties of the installations of the catalytic cracking process of natural gas, the production of propane—air gas, and also the mixing of these prepared gases in order to prepare standard city gas.

Cerd 1/1

7

SHPAKOVICH, E.Ya., inzh.

Use of radioactive isotopes for investigating the wear process of coal pulverizer balls. Teploenergetika 9 no.10:10-13 0 '62. (MIRA 15:9)

1. Yuxhnoye otdeleniye Gosudarstvennogo tresta po organizatsii i ratsionalizatsii rayonnykh elektrostantsiy i setey.

(Coal, Pulverized)

(Radioisotopes—Industrial applications)

"APPROVED FOR RELEASE: 08/09/2001

CIA-RDP86-00513R001549920012-8

L 13814-66 EWT (m)/EWP(j)/T RPL WW/DJ/RM
ACC NRI ARGODISE (A) SOUR

SOURCE CODE: UR/0191/66/000/001/0060/0063

AUTHORS: Shcherbak, P. N.; Shpakovskaya, G. B.

ORG: none

TITLE: Dielectric strength of films made of polytetrafluoroethylene (Teflon), polystyrene, and styrene copolymer-CAM

SOURCE: Plasticheskiye massy, no. 1, 1966, 60-63

TOPIC TAGS: polymer dielectric, dielectric breakdown, dielectric layer, statistic analysis, statistic distribution

ABSTRACT: Dielectric strength of thin Teflon, polystyrene, and styrene copolymer films in heterogeneous and homogeneous electrical fields was investigated. The study of the breakdown phenomenon is complicated for such films since the structural heterogeneity, impurities, etc. at small thicknesses become more pronounced, as was observed by P. N. Shcherbak (Plast. massy, No. 9, 40-43 (1963); ibid. No. 3, 60-64 (1951); ibid., No. 10, 51-57 (1962)). This results in a wide spread of values for dielectric strength from several hundreds of kw/mm to a few kw/mm or "zero" values. From a study of 4880 breakdowns in the above materials the following conclusions were reached: 1) for an objective evaluation of dielectric strength of films less than 0.03 mm thick, exposure of weak spots, and selection of the optimal number of

Card 1/2

UDC: 678,743,746,22,13-537

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film layers, it is nece curves E; 2) dielectric than 2 layers. Orig. a	strongth of su	ich films has to	be determi	al distributi ned in not le	on Iss
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L 12976-66 EWT(d)/EWP(v)/EWP(k)/EWP(h)/EWP(1) IJP(c) ACC NR AP6001521 BB/GG SOURCE CODE: UR/0302/65/000/004/0064/0066 AUTHOR: Sud'bin, B. A.; Shpakovskaya, D. V. ORG: None TITLE: A duodirectional pulse converter for changing angle of shaft rotation to discrete code SOURCE: Avtomatika i priborostroyeniye, no. 4, 1965, 64-66 TOPIC TAGS: analog digital converter, pulse coding, shaft, mining machinery ABSTRACT: The article is a report on a computing device developed at the Institute of Automation of the State Committee on Instrument Building, Means of Automation and Control Systems, State Planning Committee SSSR (Institut avtomatiki Gosudarstvennogo komiteta po priborostroyeniyu, sredstvam avtomatizatsii i sistemam upravleniya pri Gosplane SSSR) for use in the controller for the direction of motion of shaft-sinking combines. The device uses a pulse converter for changing angle of shart rotation to discrete code (D. V. Nizovkina, B. A. Sud'bin, Soviet patent No. 145463). The unit has two independent outputs with pulses which differ in sign depending on the change in direction of rotation. The unit may be used for a wide range of shaft rotation rates and has a high signal to noise ratio. The angle of shaft rotation is converted to a pulse train by a disk mounted on the shaft and a readout head. The disk is made of a material with high magnetic permeability and has a number of teeth around the edge. The diameter of the disk may be increased or the pitch of Card 1/2 UDC: 62-50-502

L 12976-66

ACC NR: AP6001521

the teeth reduced to increase the accuracy of the angle reading. The readout head consists of a differential transformer with a magnetic circuit made up of two ferrite rings. The magnetic circuit should be thinner than the width of the teeth on the disk. Air gaps are cut in the ferrite rings to take the teeth on the disk. The electrical circuit of the converter is shown and an explanation of its operation is given. Tests show that the device works reliably at shaft rotation speeds of 0.025 mm/sec to 300 rpm. Orig. art. has: 2 figures.

SUB CODE: 09, 13 / SUEM DATE: none / "

Card 2/2

SOKOLOV, P.K., inzhener, retsenzent; PIVTSOV, N.P., inzhener, retsenzent; PARAMONOV, G.A., inzhener, redaktor; SHPAKOVSKAYA, L.I., redaktor; LISINA, V.M., tekhnicheskiy redaktor

[Construction foreman's manual for general construction work]
Spravochnik mastera-stroitelia po proizvodstvu obshchestroitelinykh rabot. Novosibirsk, Novosibirskoe knizhnoe izd-vo, 1957.
653 p.

(MIRA 10:7)

(Construction industry)

BORISOVA, V.D. Prinimali uchastiye: BATURINA, Ye.A.; PESHKOVA, F.G.;
ALENTOV, Ye.P.; LEYUSHKINA, V.Ye.; PETROVA, N.I.; SAHLINA, O.F.;
SLYADNZY, A.P.; TEVEROVSKAYA, Kh.A.; CHIZHIKOVA, N.M. SHPAKOVSKAYA,
L.I., red.; POTOTSKAYA, N.M., tekhn.red.

[Districts of Novosibirsk Province; physicogeographical features]
Raiony Novosibirskoi oblasti; priroduo-ekonomicheskaia kharakteristika.
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(MIRA 13:9)

(Novosibirsk Province-Economic geography)

MINAYEVA, Valentina Gevrilovna; SHPAKOVSKAYA, L.I., red.; POTOTSKAYA, N.M., tekhn.red.

[Medicinal plants of Siberia] Lekarstvennye rasteniia Sibiri.

Izd.3., ispr. i dop. Novosibirsk, Novosibirskoe knizhnoe izd-vo.

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(SIBERIA--BOTANY, MEDICAL)

VOZNYUK, Vladislav Vladimirovich; SHPAKOVSKAYA, L.I., red.; SUBBOTINA, G.M., tekhn. red.

[Amateur radio designs] Radioliubitel'skie konstruktsii. Novosibirsk, Novosibirskoe knizhnoe izd-vo, 1961. 133 p.

(MIRA 15:2)

SHMITKOVA, A.S.; SHPAKOVSKAYA, L.I., red.; GOSTISHCHEVA, Ye.M., tekhn.

[Health resorts, sanatoriums, and rest homes of Siberia] Kurorty, sanatorii i doma otdykha Sibir. Novosibirsk, Novosibirskoe knizhnoe izd-vo, 1961. 148 p. (MIRA 15:1)

l. Glavnyy vrach Novosibirskogo kurortnogo Upravleniya (for Shmitkova).

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PARAMONOV, G.A., inzh.; PICHUGIN, A.A., kand.tekhn.nauk; VANEYEV, V.A., inzh.; KUZ'MINSKIY, A.G., inzh.; CHUYKO, A.V., kand.tekhn.nauk; VRUBLEVSKIY, L.Ye., inzh.; FURMAN, A.Ya., inzh. [deceased]; PEGANOV, G.N., inzh.; SHRFANOV, A.S., inzh.; DMITRIYEV, P.A., kand.tekhn.nauk; IVANOV, I.A., kand.tekhn.nauk; TEMKO, Yu.P., dotsent; SOKOLOV, P.K., dotsent; KANYUKA, N.S., kand.tekhn.nauk; SHPAKOVSKAYA, L.I., red.; GOSTISHCHEVA, Ye.M., tekhn.red.

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Novesibirsk, Novosibirskoe knizhnoe izd-vo, 1961. 713 p.

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VOZNYUK, Vladislav Vladimirovich; SHPAKOVSKAYA, L.I., red.; SUBBOTINA, G.M., tekhn. red.

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(MIRA 16:3)

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IOGANZEN, B.G., otv. red.; PETKEVICH, A.N., otv. red.; SAMARIN, V.P., red.; SHPAKOVSKAYA, L.I., red.

[Development of pond fish culture in Siberia; materials of the Seventh Plenum of the Western Siberian Branch of the Ichthyological Commission of the State Planning Committee of the Council of Ministers of the U.S.S.R. held in Kemerovo on Semptember 11=12, 1961]Razvitie prudovogo rybolovstva v Sibiri; materialy VII Plenuma Zapadno-Sibirskogo otdeleniia Ikhtiologicheskoi komissii Gosplana SSSR, provedennogo v Kemerove 11-12 sentiabria 1961 g. Novosibirsk, 1962. 95 p. (MIRA 16:1)

1. Russia (1923- U.S.S.R.)Gosudarstvennaya planovaya komissiya. Ikhtiologicheskaya komissiya. Zapadno-Sibirskoye otdeleniye. 2. Tomskiy universitet (for Ioganzen). 3. Gosudarstvennyy nauchno-issledovatel skiy institut ozernogo i rechnogo rybnogo khozyaystva (for Petkevich).

(Siberia, Western-Fish culture-Congresses)

AFANAS'YEV, S.P.; SHIFMANOVICH, N.M.[deceased]; SHPAKOVSKAYA, L.I.,
red.; SUBBOTINA, G.M., tekhn. red.

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dopuskam, rez'bam i kalibram [By] S.P.Afanas'ev, N.M.Shifmanovich,
Izd.3., perer. Novosibirsk, Novosibirskoe knizhnoe izd-vo, 1962.
406 p.
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1. Novosibirskiy instrumental'nyy zavod, Novosibirsk.

(Mechanical engineering--Handbooks, manuals, etc.)

GIK, Leonid Davidovich; KARANDEYEV, Konstantin Borisovich; SHPAKOVSKAYA, L.I., red.; YELISTRATOVA, Ye.M., tekhn. red.

[Electric correction of vibration measuring equipment] Elektricheskaia korrektsiia vibroizmeritel'noi apparatury. Novosibirsk, Izd-vo Sibirskogo otd-niia AN SSSR, 1962. 127 p. (MIRA 16:5)

(Vibration-Measurement)

KUTATELADZE, Samson Semenovich; LEONT'YEVA, Aleksandr Ivanovich;

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[Turbulent boundary layer of compressible gas] Turbulentnyi pogranichnyi sloi szhimaemogo gaza. Novosibirsk, Izd-vo Sibirskogo otd-niia AN SSSR, 1962. 179 p. (MIRA 16:6)

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KAZARINOV, V.P., otv. red.; BGATOV, V.I., red.; KAZANSKIY, Yu.P., red.; KRASHENINNIKOV, G.F., red.; SAKS, V.N., red.; YA HLOKOV, V.S., red.; SHPAKOVSKAYA, L.I., red.

[Methods for compiling lithological facies and paleogeographic maps; transactions] Metody sostavleniia litologofatsial'nykh i paleogeograficheskikh kart; trudy. Novosibirsk, Izd-vo Sibirskogo otd-niia AN SSSR. Vol.1. 1963. 174 p. (MIRA 18:1)

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[Isomerization of aromatic compounds] Izomerizatsiia aromaticheskikh soedinendi. Pod red. N.N. Vorozhtsova. Novosibirsk, Izd-vo Sibirskogo otd-niia AN SSSR, 1963. 175 p. (MIRA 17:3)

1. Chlen-korrespondent AN SSSR (for Vorozhtsov).

YAVGRAIT, 1..., toktor twins. neok, ALRYWV, C.F.; ORENBARH,
Y...; YARRHELL, V.1.; RETROVSRAYA, L.I., red.

[Affect of the structure of mineral coals on their combustion] Virianie stroenida ideopsemykh uglei na ikh gorenie.
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YERMOLOV, Viktor Veniaminovich; TROITSKIY, S.L., otv. red.; SHFAKOVSKAYA, L.I., red.

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borovkov, A.A.; MARKOVA, N.F.; SYCHEVA, N.M.; SHPAKOVSKAYA, L.I., red.

[Tables for N.V.Smirnov's criteria of the uniformity of two samples] Tablitsy dlia kriteriev N.V.Smirnova odnorodnosti dvukh vyborok. Novosibirsk, Redaktsionno-izd. otdel Sibirskogo otd-niia AN SSSR, 1964. 139 p. (MIRA 17:6)

KOSYGIN, Yu.A.; BASHARIN, A.K.; BERZIN, N.A.; VOLONTEY, G.M.; VOTAKH, O.A.; KRASIL'NIKOV, B.N.; PARFENOV, L.M.; SHPAKOVSKAYA, L.I., red.

[Pre-Cambrian tectonics of Siberia] Dokembriiskaia tektonika Sibiri. Novosibirsk, Red.izd. otdel Sibirskogo otd-niia AN SSSR, 1964. 124 p. (MIRA 18:1)

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KUTATELADZE, S.S.; LEONT'YEV, A.I.; RUBTSOV, N.A.; GOL'DSHTIK,

M.A.; VOLCHKOV, E.P.; DAVYDOVA, M.V.; DRUZHININ, S.A.;

KIRILLOVA, N.N.; MALENKOV, I.G.; MOSKVICHEVA, V.N.;

MIROLOV, B.P.; MUKHIN, V.A.; MUKHINA, N.V.; REEROV, A.K.;

FEDOROV, V.K.; KHABAKHPASHEVA, Ye.M.; SHTOKOLOV, L.S.;

SHPAKOVSKAYA, L.I., red.

[Heat and mass transfer and friction in a turbulent boundary layer] Teplomassoobmen i trenie v turbulentnom pogranichnom sloe. Novosibirsk, Red.-izd. otdel Sibirskogo otd-niia AN SSSR, 1964. 206 p. (MIRA 18:1)

KHOMENTOVSKIY, A.S., nauchn. red.; SHPAKOVSKAYA, L.I., red.

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KLYAROVSKIY, V.M.; KUZHETSOV, V.P.; NIKOLAYEVA, I.V.;

NOVOZHILOV, V.I.; SENDERZON, E.M.; AKAYEV, M.S.; BABIN,

A.A.; BERDNIKOV, A.P.; GORYUKHIN, Ye.Ya.; NAGORSKIY, M.P.;

PIVEN', N.M.; BAKANOV, G.Ye.; GEBLER, I.V.; SMOLYANINOV,

N.M.; SMOLYANINOVA, S.I.; YUSHIN, V.I.; D'YAKONOVA, N.D.;

MEZAPOV, N.M.; KASHTANOV, V.A.; COL'BERT, A.V.; SIDOROV,

A.P.; GARMASH, A.A.; BYKOV, M.S.; BORODIN, L.V.; RYCHKOV,

L.F.; KUCHIN, M.I.; SHAKHOV, F.N., glav. red.; SHFAKOVSKAYA,

L.I.; red.

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l. Akademiya nauk SSSR. Sibirskoye otdeleniye. Institut geologil i geofiziki. 2. Institut geologii i geofiziki Sibirskogo otdeleniya AN SSSR (for Belous, Kazanskiy, Vdovin, Klyarovskiy, Kuznetsov, Nikolayeva, Novezhilov, Senderzon). 3. Institut gornogo dela (for Akayev). 4. Novosibirskoye geologicheskoye upravleniye Ministerstva geologii i okhrany nedr SSSR (for Babin, Berdnikov, Goryukhin, Nagorskiy, Piven).

(Continued on next card)

BELOUS, N.Kh .-- (continued). Card 2.

Tomskiy politekhnicheskiy institut (for Pakanov, Gebler, Smolyaninov, Smolyaninova). 5. Sibirskiy nauchno-issledovateliskiy institut geologii, geofiziki i minerali-nogo syriya(for Yushin, Diyakonova, Rezapov, Kashtanov, Golibert). 5. Institut ekonomiki seliskogo khozyaystva (for Garmash). 7. Sibirskiy metallurgicheskiy institut (for Bykov, Borodin, Rychkov). 8. Tomskiy inzhenorno-stroitelinyy institut (for Kuchin). 9. Chlen-kerrespondent AN SSSR (for Shakhov).

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KAZARINOV, V.P., otv. red.; BGATOV, V.I., red.; KAZANSKIY, Yu.P., red.; KRASHENINNIKOV, G.F., red.; SAKS, V.N., red.; YABLOKOV, V.S., red.; SHPAKOVSKAYA, L.I., red.

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1. Vsesoyuznoye litologicheskoye soveshchaniye. 5th, Novosíbírsk.

L 51475-65 EWP(m Ps-4/Pu-4/Pi-4	Shpakovskappa, L.I. a)/EPF(c)/EPF(n)-2/EPR/EWT(1)/FCS(k)/EWO(n)	n)/EWA(l) Pd-l/Pr-4/
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Kutateladze, S. S.	sfer and friction in a turbulent boundary	55 6+1 y layar (Teplomassoobmen
printed. (At h	bulentnom pogranichnom sloye) Novosibirsi 206 pl illus., biblio. Errata slip insc esad of title: Akadmeiya nauk SSSR. Sibir iziki) Editor: L. J. Shpakovakaya; Techr	erted. 1000 copies
TOPIC TAGS: bound	reader: L. I. Korshunova ary layer flow, detached flow, friction.	heat transfer, incom-
pressible fluid, m	uss transfer, nonisothermal flow, radiati	ion effect, turbulent
PURPOSE AND COVERA tateladze and A.]	GE: This book is a continuation of the manual co	nonograph by S. S. Ku-
on a solid were fo	of friction and heat transfer in the turb regulated and specific applications of the of the book was written by Kutateladze an	culent boundary layer
i Card 1/3		

L 51475-65 AU5012942 N. A. Rubtsov was mainly responsible for the development of problems of the interaction of the turbulent boundary layer with radiation. The theory of the flow structure beyond the region of detachment was developed by M. A. Goldshtik. Others who helped prepare the book were N. N. Kirillows, B. P. Kironov, V. A. Mukhin, N. V. Mukhina, A. K. Rebrov, V. K. Fedorov, M. V. Davydova, S. A. Druzhinin, E. P. Volchkov, Ye. M. Khabakhpasheva, I. G. Malenkov, V. N. Moskvicheva, and L. S. Shtokolov. Professor D. B. Spolding helped in the analysis of certain interesting questions. TABLE OF CONTENTS: Foreword - - 3 Basic definitions - - 5 Ch. 1. Basic properties of a two-dimensional turbulent boundary layer - - 13
Ch. 2. Flow of a nonisothermal gas stream around an impenetrable surface - - 24
Ch. 3. Flow around a semipenetrable surface - - 68
Ch. 4. Heat screen - - 119 A turbulent boundary layer of incompressible gas in the presence of radiation - - 132 Car. 2/3

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Ch. 7. The ques	tion of the ef	fact of nonia	othermicity o	n hydraulic	resistance	in
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TSUMEDMAN Viktor Grigor yevich; VAYNSHTEYN, Emmanuil Yefimovich; SHPAKOVSKAYA, L.I., red.

[Photoconductors in X-ray dosimetry] Fotoprovodniki v dozimetrii rentgenovskogo izlucheniia. Novosibirsk, Red.-izd.
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(MIRA 18:3)

21:751 s/191/61/000/007/009/010 2101/3215

15 8510

AUTHORS:

Rather, S. F., Stinskas, A. V., Shpakevskaya, Ye. I.

TTTLE:

Long-time strength of plastics

PERICOICAL:

Fladicheskiye mossy, so. 7, 1051, 59.65

TEXT: This is a review of sublications on the long-time strength of plastics. The equation by S. N. Zhurkov et al. (Ref. 1: ZhTF, 23. no. 10 (1953). Ref. 2: ibid., 25, no. 1 (1955)) is given:

 $\tau = \tau_{o} \exp \left[\left(\overline{v}_{o} - \overline{\gamma \sigma} \right) / RT \right]$ (1).

where τ is the long-time strength; $\tau_{_{\mbox{\scriptsize C}}}$ a sonstant almost independent of the material and approximately equal to the vibration period of the atoms in the molecule $(\tau_0 \approx 10^{-12} \text{ sec})$; U_o a constant almost equal to the activation energy of thermochemical destruction; and γ a constant depending on the structure of material, which becomes smaller as the crientation increases, and larger on plasticizing. Results of other scientists are presented,

Card 1/3

21,751 s/191/61/000/007/009/010 B101/3215

Long-time strength of plastics

especially late on glass-reinforced plastics. The difference between short-time on I lung-time tests is mentioned. In plass-reinforced plastics. the location of earth after 1000 he over gas 1/1 of the short-time strength, cal 1/2 in non-relaforced plastics. Papers by A. W. Thompson (see below), B. Pusey (see below), and R. C. Hooper (see below) on glassreinforced enexy resins are mentioned. Simulafication of the complicated long-time test by extrapolation or, according to S Goldfein (see below), by temperature increase according to the equation $T = (20 + \log \tau) = const (5)$ is discussed. Comparison of long-time strength and fatigue strength (by cyclic loading) shows that in the latter case, the strength is considerably reduced probably due to local heating. Under all test conditions, reinforced plastics generally show higher values than non-reinforced plastics. A. P. Aleksandrov. Tomashevskiy, and a report made by Yu. S. Lazurkin at the Conference on the Strength of Polymers and Polymer Materials, Moscow, May 16-18, 1960, are mentioned. The authors thank T. N. Kryuchenko and D. I. Verizhnikova for compiling publications on glass-reinforced plastics. There are 5 figures, 3 tables, and 24 references: 11 Soviet-bloc and 13 non-Soviet-bloc The most important references to English-language publications read as follows: A. W. Thompson,

Card 2/3

21751 S/191/61/000/007/009/010 B101/B215

Long-time strength of plastics

Reinforced Plastics, no. 11 (1957); B. B. Pusey, R. H. Carey, Modern Plastics, 32, no. 7, (1955); R. C. Hooper, Plastics Technology, 3, no. 8 (1957); S. Goldfein, A. S. T. M. Bulletin, no. 224 (1957).

Card 3/3

39639 s/191/62/000/008/010/013 B1.24/B180

15.8350

L'vov, B. S., Koltunov, M. A., Kuznetsov, V. N.,

AUTHORS: Shpakovskaya, Ye. I.

Physicomechanical characteristics of glass-reinforced TITLE:

plastics based on polyester resin. Elasticity constants of

glass-reinforced plastics

Plastiqheskiye massy, no. 8, 1962, 38-40 PERIODICAL:

YEXT: Experimental results in determining the elasticity constants and the effect of loading and deformation rates on the stress-strain diagram of glass-reinforced plastics based on $\Pi H-1$ (PN-1) polyester resin and T-1 (T-1) glass fabric have been obtained in the laboratoriya stekloplastikov NIIPM (Laboratory of Glass-reinforced Plastics of NIIPM) and the problemnaya laboratoriya fiziko-mekhanicheskikh svoystv polimerov Moskovskogo universiteta (Special Research Laboratory for the Physicomechanical Properties of Polymers, Moscow State University). Isopropyl benzene hydroperoxide and cobalt naphthenate were used as hardeners at room temperature. Test specimens were cut out from the Card 1/3

CIA-RDP86-00513R001549920012-8" APPROVED FOR RELEASE: 08/09/2001

S/191/62/000/008/010/013
Physicomechanical characteristics ... B124/B180

fabric with their axes at angles φ to the warp of 0, 15, 30, 45, 60, 75, and 90°. They were kept at 80°C for 12 hrs. Loading and unloading were done in steps of 100 kg each, and measured with an accuracy of \pm 1%. Fig. 1 shows the circuit diagram of the extensometer pickups which measured with 5% accuracy. Their readings were recorded on a static tensometer sensitivity 1·10-5. Total error of the system did not exceed 3%. The stress-strain diagram is linear up to a deformation of \sim 3·10-3. Worst results are with $\varphi = 45^{\circ}$. The fabric has three symmetry axes. The glass-reinforced plastic investigated is orthotropic.

 $\Xi \phi / \Xi_0 = \frac{\lambda}{\lambda \cdot \cos^4 \phi + B \sin^2 \phi \cdot \cos^2 \phi + \sin^4 \phi} \text{, where } \phi \text{ is the angle between the}$

warp and the direction of tensile stress and E = the elasticity modulus in the same direction. $\lambda = \frac{E_{90}}{E_{0}}$ and $2B = 4\frac{E_{90}}{E_{45}}(1 + \lambda)$. The elasticity

modulus values calculated from these equations are in satisfactory agreement with experimental data. There are 5 figures.

Card 2/3

5/191/62/000/009/004/012 B101/B144 Livov, B. S., Panferov, K. V., Romanenkov, I. G., Changes in the physicomechanical properties of glass-reinforced. Shpekovskaya, Ye. I. AUTHORS: polycster plastics due to water Plasticheskiye massy, no. 9, 1962, 16 - 18 TEXT: Longer immersion in Water had the following effect on the physico-TEXT: Longer immersion in Water had the following effect on the physicomechanical properties of glass-reinforced plastics (GRP) which contained rechanical properties of glass-reinforced plastics (1) Reduction of tensilo as binder. TITLES mechanical properties of glass-reinforced plastics (GRP) which contained 35-40% TH-1 (PN-1) polyester regin as binder: (1) Reduction of tensile at another and handing strangth depended on the type of glass filler. 35-40% NH-1 (PN-1) polyester resin as binder: (1) Reduction of tensile After strength and bending strength depended on the type of glass filler. After strength and bending strength depended on the type of the initial attention in water. The tensile strength (in of the initial formation in water. Strength and bending strength depended on the type of glass Illier. After the formula of the initial that immersion in water, the tensile strength (in % of the initial of months, immersion in water, fabric was 62.5 with T-1 (m-1) plain was PERIODICAL: 6 months' immersion in water, the tensile strength (in % of the initial value) for GRP with rope glass fabric was 62.5, with T-1 (T-1) plain weave value) for GRP with rope glass fabric was 62.5, with T-1 (T-1) plain weave strength the bending strength the bending strength fiber 55.9; the bending strength glass fabric (2) When T-1 glass fabric glass fabric (2) When T-1 glass fabric dropped to 14.0, 66.5, and 35.1, respectively.

dropped to 14.0, 66.5, and 35.1, respectively. dropped to 14.0, 66.5, and 35.1, respectively. (2) When T-1 glass fabric was treated with the organosilicon recommendation that the organosilicon recommendation in water dropped by only 7.6. was treated with the organosilicon (GVS-9) preparation the tensil strength of GRP after 40 days, while the corresponding values for CRP, while the handing etrangth by 15 feet while the corresponding values for CRP. strength of GRP after 40 days, immersion in water dropped by only 7.6, with the bending strength by 15.6%, while the corresponding values for GRP with Card 1/2 Card 1/2

VASIL'YEV, Ye.F.; L'VOV, S.S.; STEPANYCHEV, Ye.I.; SHPAKOVSKAYA, Ye.I.

Methods of static tests for tensile strength of glass plastics obtained by cold setting. Plast. massy no.6:57-60 '63.

(MIRA 16:10)

5/0191/64/000/006/0039/0040

AUTHOR: Voloshenko-Klimovitskiy, Yu. Ya.; Belyayev, Yu. A.; L'vov, B. S.; Shpakovskaya, Ye. I.

TITLE: Impact tensile strength at +20 and -196 C of glass reinforced plastics based on PN-1 binder cured at low temperatures

SOURCE: Plasticheskiye massy*, no. 6, 1964, 39-40

AP4039947

TOPIC TAGS: glass reinforced plastic, glass fabric T-1, polyester resin PN-1, impact tensile test, static tensile test

ABSTRACT: The authors have developed at the Laboratory of the Strength of Materials for Machine Building of the IMASh GKA i M a method for impact tensile tests of glass reinforced plastics (GRP). This method makes it possible to determine the tensile strength in uniaxial stretching and can be used for calculating mechanical strength. It was applied to T-1 glass fabric-reinforced unsaturated polyesters resin PN-1. The GRP were subjected to static and impact tests. The results, which are given in Fig. 1 of the enclosure, show that PN-1-based GRP possess a good "dynamic strength reserve" both at +20 and -196 C. Orig. art. has 1 figure and 1 table.

1 1/3

ACCESSION NR:

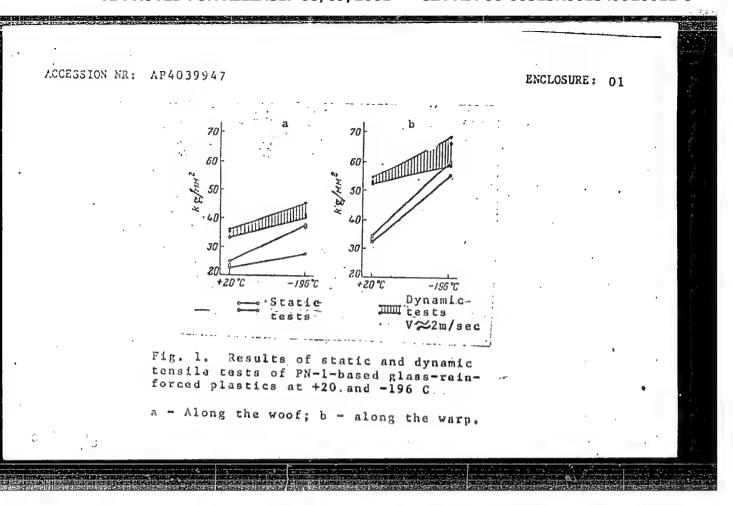
ACCESSION NR: AP4039947

-ASSOCIATION: none

SUBMITTED: 00 DATE ACQ: 24Jun64 ENCL: 01

SUB CODE: MT NO REF SOV: 002 OTHER: 000

Cord 2/3



Volcamentary Novitable, Yu.Ya.; BELYAYEV, Yu.A.; 1.490V, b.G.; SHEAKOVSKAYA,

T.o.b.

Strangth of bold cured PN-1 bonded glass relations under the consistions of impact tension at normal (\$2000) and low (419600) temperatures. Frast.massy no.6239-40 164.

(MIRA 16:4)

First all-Union scientific technical conference on the production of glass reinforced plastics. Plasts massy no.11 70-71 '65. (MFA 18:12)

"APPROVED FOR RELEASE: 08/09/2001

CIA-RDP86-00513R001549920012-8

BLOKHINA, A.; TERENT'YEV, M.; SHPAKOVSKIY, A.

Repairing semi-axle sleeves with a metal drawing process. Avt.
transp. 35 no.1:30-31 Ja '57.
(Axles)

(Axles)

Immunity. USSR / General Problems of Pathology.

Abs Jour: Ref Zhur-Biol., No 11, 1958, 51495.

: Shpakovskiy, a. A. Author

: Vitebsk Veterinary Institute. Tnst

: On the Mechanism of Passive Immunity Against Title

Erysipelas in White Mice.

Orig Pub: Ych. zap. Vitebskogo vet. in-ta, 1956, 14,

No 2, 80-85.

Abstract: No abstract.

Card 1/1

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month of the first of the second

: Valores Veterinary Institute

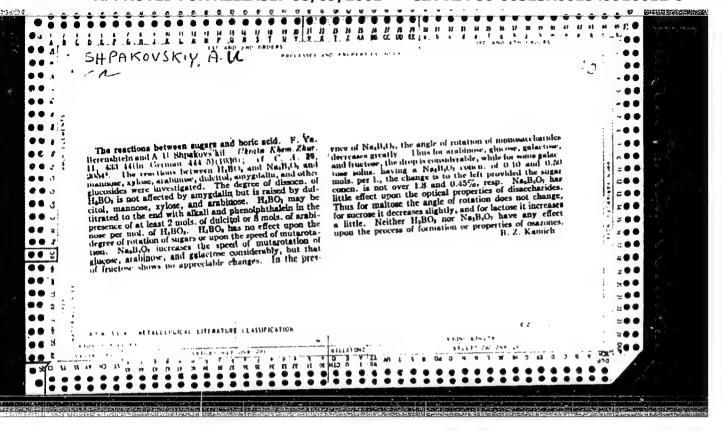
: to Lynamic of Phagocytosis to Stimulation and Inhibition of the Central Nervous System I: the For-

APPROVED FOR RELEASE: 108/09/2001 ive Immunity against ORIG. PUB. : Uch. Zap. Vitebskogo Vet. ICJA-RDP86-00513R001549920012-8

ABTEACT

: In rabbits and young pigs immunized a minst swine ervsitelas, studes were made of the configes in what restants (i) and the chargocyte count (ic) upon the abministration subcutabeously in rabbits of 1. solution of caffeine in a dose of 1 ml/mg, and in pigs of a 20, solution in acose of 5 ml/2g, or or MaBr to rathits in a dose of i mives of a 1. solution, and to pigs in a dose of 2 g each. 0 on the in ection of caffeine in rabbits, the 7 increased by 11 to 425, and in pigs by 10 to 3054 the of also rose, with Fair, the P declined L. to me and the to also went down. - 1.6...

1/1



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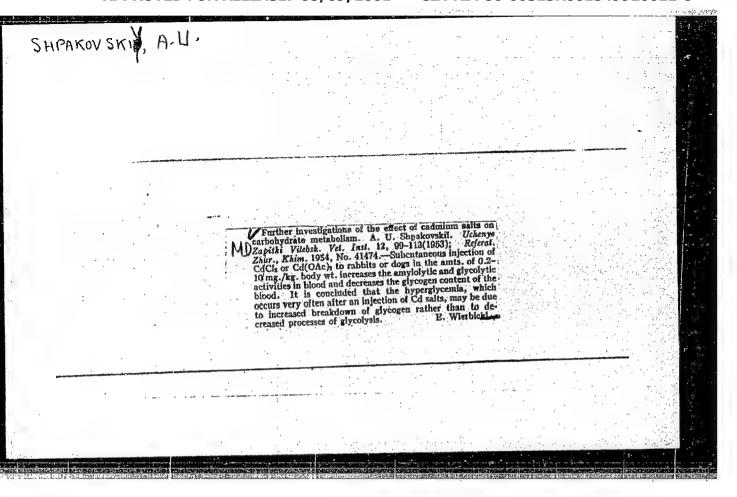
SHFAKOVSIY, A. Le

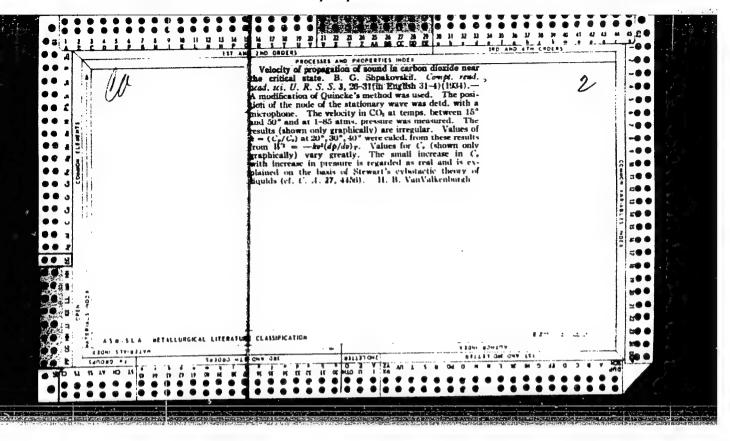
37566. Kvoprosy O Vliyanii Soley Kadmiya Ma Uglevodnyy Obmen. Chen. Zapiski Viteb. Vet. In-Ta, T. IX, 1949, S. 94-99--Bibliogr: 10 Nazv.

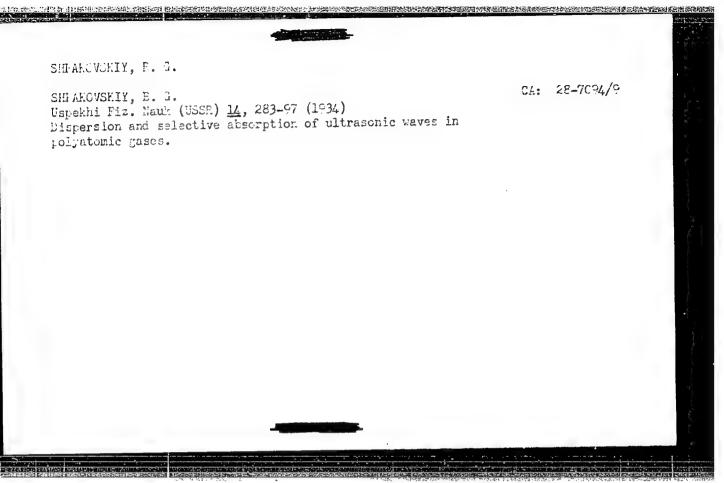
SO: Letopis' Zhurnal'nykh Statey, Vol. 37,1949

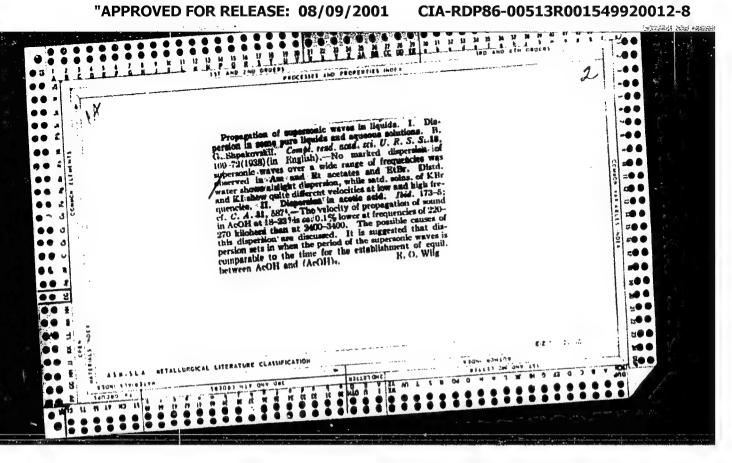
"APPROVED FOR RELEASE: 08/09/2001

CIA-RDP86-00513R001549920012-8









SHPAKOVSKIY, B.G.

Noise control. Priroda 45 no.8:112 Ag '56. (MIRA 9:9)

1. Komissiya po akustike Akademii nauk SSSR. (Noise)

SHPAKOVSKIY, G.G.

Preliminary processing of tomatoes in the area of their cultivation. Kons.i ov.prom. 15 no.2:7-9 F '60.
(MIRA 13:5)

1. Vinnitskiy sovnarkhoz.
(Vinitsa Conomic Region—Tomatoes)

MALITSEV, M.N., Fand.tekhn.nauk; SHPAKOVSKIY, I.N., kand.geograf.nauk

A new low-pressure hydrogen generator for use in expeditions. Inform.
biul. Sov. antark. eksp. no.20:29-32 '60. (MIRA 13:9)

1. Arkticheskiy i antarkticheskiy nauchno-issledovatel'skiy institut.
(Hydrogen) (Antarctic Pegions-Gas producers)

SHPAKOVSKIY, M.A.

PHASE I BOOK EXPLOITATION SOV/3662

Pikus, Meyer Yudelevich, Grigoriy Sofronovich Talako, and Mikhail Antonovich Shpakovskiy

Protyazhnyye avtomaty i poluavtomaty (Automatic and Semiautomatic Broaching Machines) Minsk, Gos. izd-vo BSSR, 1959. 213 p. Errata slip inserted. 3,000 copies printed.

Ed.: A. Molochkov; Tech. Ed.: N. Stepanova.

PURPOSE: This book is intended for technical personnel.

COVERAGE: The book deals with basic constructions of automatic and semiautomatic broaching machines manufactured in the Soviet Union. Detailed descriptions of the characteristics and technical specifications of types of general—and special—purpose machines are given. Hydraulic, electric, and manually operated auxiliary are given. Hydraulic, electric, and manually operated auxiliary equipment is also described. The principal manufacturers of these machines are the Minskiy stankostroitel nyy zavod imeni Kirova (Minsk Machine-Tool Plant imeni Kirov) the "Stankokonstruktsiya" (Minsk Machine-Tool Plant imeni Kirov). No personalities are men-

ANBINDER, Ya.Ye. [Anbinder, IA.IE.]; SHPAKOVSKIY, N.Ye. [Shpakovs'kyi, N.E.];
DARBINYAN, S.A.; KCMAROV, V.V.; KCMAROVA, T.V.; KCZLOV, Yu.A.; KCNOKOTIN,
L.P.; ZEREKIDZE, V.M.; SHULYATITSKIY, S.M. [Shyliatyts'kyi, S.M.];
KHODURSKIY, Ye.A. [Khodurs'kyi, IE.A.]; OBUSHINSKIY, Ye.I. [Obushyns'kyi,
IE.I.]; GVOZDIK, A.A. [Hvozdyk, A.A.]; NIKITINA, M.A.; LUPASHKC, N.F.;
BESKROVNYY, M.N.; TSIMBLER, M.Ye. [TSymbler, M.IE.]; ILYN, A.N.; TOTADZE,
P.M.; ZHIGURS, Kh.Yu.; ZAKREVSKIY, Ye.S. [Zakrevs'kyi, IE.S.];
FEDOROVICH, A.G. [Fedorovych, A.H.]; CHALENKO, D.K.; KHOMUTOV, D.A.;
SKURIKHIN, I.M.; NILOV, V.I.; YEFIMOV, B.N. [IEfimov, B.N.]; KAZANOVSKIY,
V.S. [Kazanovs'kyi, V.S.]; ZOTIKOV, L.S.; KCCHURENKO, M.A.

Soviet certificates of invention. Khar. prom. no.2:57-59 Ap-Je '65. (MIRA 18:5)

SHPAKOVSKIY, V. A.

Pigeon Fer

Pigeon pen as a new feed crop. Korm. baza 3 no. 6, 1952.

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- 1. SHPAKOVSKIY, V. A.
- 2. SSSR (600)
- 4. Uzbekistan-Legumes
- 7. "Kaian" is a new subtropical leguminous crop for Uzbekistan.
 Dost. sel'khoz. No. 10, 1952

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MALBIYEV, Rafael' Isnakovich; SHPAKOVSKIY, V.I., red.; FEINTOVA, M.I., ved.red.; YASHCHIRZHINSKAYA, A.B., tekhn.red.

[Dockside structures of tank farms] Prichal'nye sooruzheniia neftebaz. Leningrad, Gos. nauchno-tekhn.izd-vo neft. i gorno-toplivnoi lit-ry, Leningr. otd-nie, 1958. 165 p. (MIRA 12:1) (Wharves) (Tank vessels)